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3- File transition lines smooth.

QC1- Inspect dimensions to dimension sheet

110

Quality Control

Insp.

W/O:			V	VORK ORDER CHANG	GES		, , , , , , , , , , , , , , , , , , , ,			7 1
DATE	STEP	PRO	OCEDURE CH	CEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	.	PAR #:	Fault Ca	tegory:	NCR:	Yes N	o DQ	\:	_ Date: _	
	R	esolution:	Disposit	ion:	QA: N	VC Clos	sed:		Date: _	···
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DATE	OTED	Description of NC Corrective Action			verilic			ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Initial Action Description Chief Eng Chief Eng			Section C		Chief Eng	QC Inspector
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0.00

Memo Quality Control 140 QC8- Inspect parts - second check 0.00 *140* OC 0.00 Memo

130 QC

Quality Control

Page 2

12-4-16

Dart Aerospace Ltd	1
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Dail Ac	ospac	e Liu					
W/O:		WORK ORDER CHANGES					* 1
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #: Fault Category: NO		No DQ			

NCR:		· .		DER NON-CONFORMANCE Corrective Action Section B		1	·	
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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Page 3

April-13-12 12:58:09 PM Item ID: D412-664-203TRN Accept *N900040100* Setup Start **Revision ID:** Crosstube Turning Detail Item Name: **Start Date:** Start Qty: 1.00 13/04/2012 **Cust Item ID: Required Date:** 27/04/2012 Reg'd Qty: 1.00 **Customer:** Reference: Run **Approvals: Process Plan:** Date: Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Reject Tool # Plan Reject Accept Insp. Work Center ID Description Run Hours Code Qty Qty Number Stamp 145 0.00 *145* Crosstubes 0.00 Memo Crosstubes GRIND ONLY TRANSITION LINES SMOOTH LONGITUDE WAY. 150 Crosstubes Chemical Conversion 0.00 *150* HandFXtube 0.00 Memo 12-4-18 Hand Finishing Crosstubes 160 QC7-Inspect Chemical Conversion Coat 0.00 *160* QC 0.00 Memo Quality Control

W/O:	-	WORK ORDER CHANGES											
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Page 4

Insp.

12/4/19 th

QC21- Final Inspection - Work Order Release

120

180

QC 0.00 Memo Quality Control

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Picklist Print

April-13-12 12:58:13 PM

Work Order ID: 83181

83181

Parent Item:

D412-664-203TRN

D412-664-203TRN

Parent Item Name: Crosstube Turning Detail

Start Date: 13/04/2012

Required Date: 27/04/2012

Start Qty: 1.00

**

Required Qty: 1.00

Comments:

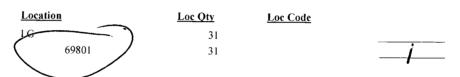
IPP Rev:A 08-03-06 new issue DD verified by:eec

IPP Rev B 08.04.02 Removed polish EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6009-129		Manufactured	No			120	Each	31.0000	1	1	· · · -		

D6009-129

Crosstube Material



Kc 12-4-15

Page 1

W/O:			WO	RK ORDER CHANG	ES			3 4 4
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Part No	·	PAR #:	Fault Categ	ory:	NCR: Yes N	o DQA:	Date: _	
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NCR:		W	ORK ORDE	R NON-CONFORMA	NCE (NCR)			-
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	on B Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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DART AEROSPACE LTD	Work Order:	83181
Description: Crosstube Assembly (412 High Aft)	Part Number:	D412-664-243
Inspection Dwg: D412-664-243 Rev: E		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	Prototype
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	spection Sheet awing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	2.684	+0.005/-0.000	2.689			VERN	CNC 08
	2.748	+0.005/-0.000	2.753	1,	"		
	2.884	+0.005/-0.000	2.889	1/			
	3.019	+0.005/-0.000	3.024	1			
	3.163	+0.005/-0.000	3,167	//	/		
	3.308	+0.005/-0.000	3.313	//			
A	_3.429	+0.005/-0.000	3.431	11			
SIDE	2.990	+0.005/-0.000	2595	1/			La
S	2.618	+0.005/-0.000	2.623	V		V	
-							
	0.200	+/-0.010	.200			UERW	CN C 68
	R0.063	+/-0.010	,063	/		RG	
	R0.500	+/-0.010	.500	//		RG	
	4.971	+/-0.030	4.971			VERN	CNC 68
	2.684	+0.005/-0.000	2.689			UERN	CNC 08
	2.748	+0.005/-0.000	2753				•
	2.884	+0.005/-0.000	2.888				
	3.019	+0.005/-0.000	3.023		/		
	3.163	+0.005/-0.000	3.167				
	3.308	+0.005/-0.000	3.313				
m	3.429	+0.005/-0.000	3.431	//			
SIDE	2.990	+0.005/-0.000	2.995				1
S	2.618	+0.005/-0.000	2.623			Ψ	
	0.200	+/-0.010	.200	_//		VERN	CNC 08
-	R0.063	+/-0.010	.063	//		RG	
	R0.500	+/-0.010	.500	_/_/		RL	
	4.971	+/-0.030	4.971	_//		Verd	CNC B
	124.100	+/-0.020	124 100			TAPE	MML 02.

Measured by: C 12-05-16 Audited by: Prototype Approval: N/A

Date: 12-05-16. Date: 12-4/1 Date: N/A

Rev	Date	Change	Revised by	Approved
Α	04.06.16	New Issue (P/O D412-664-203)	KJ/JLM	1-1-1
В	06.03.09	Dwg Rev updated	KJ/JLM	
С	07.05.08	Tolerance updated for dimension 4.971	KJ/JLM (N
D	10.02.02	Dimension 124.100 was 124.09	KJ K	N/V
			- 17) -	

Dart Aerospace

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		Section A	Chief Eng	Chief Eng	Date		on C	Chief Eng	QC Inspector
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Item	Qty -243	Part Number	Description
1	х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
2	1	D6009-129	CROSSTUBE
3	2	D3595-063-570	RUBBER CUSHION
4	1	D2896-1	SUPPORT
5	2	D3189-1	CHAFING SHIELD
6	2	D2856-600-1009	ABRASION STRIP
7	4	MS21920-28	CLAMP
8	2	MS21920-30	CLAMP (OR MS21920-32)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

1) MATERIAL: MANUFACTURED FROM D6009-129

FINISHED LENGTH = 124.100±0.020 (BEFORE BENDING/TRIMMING)

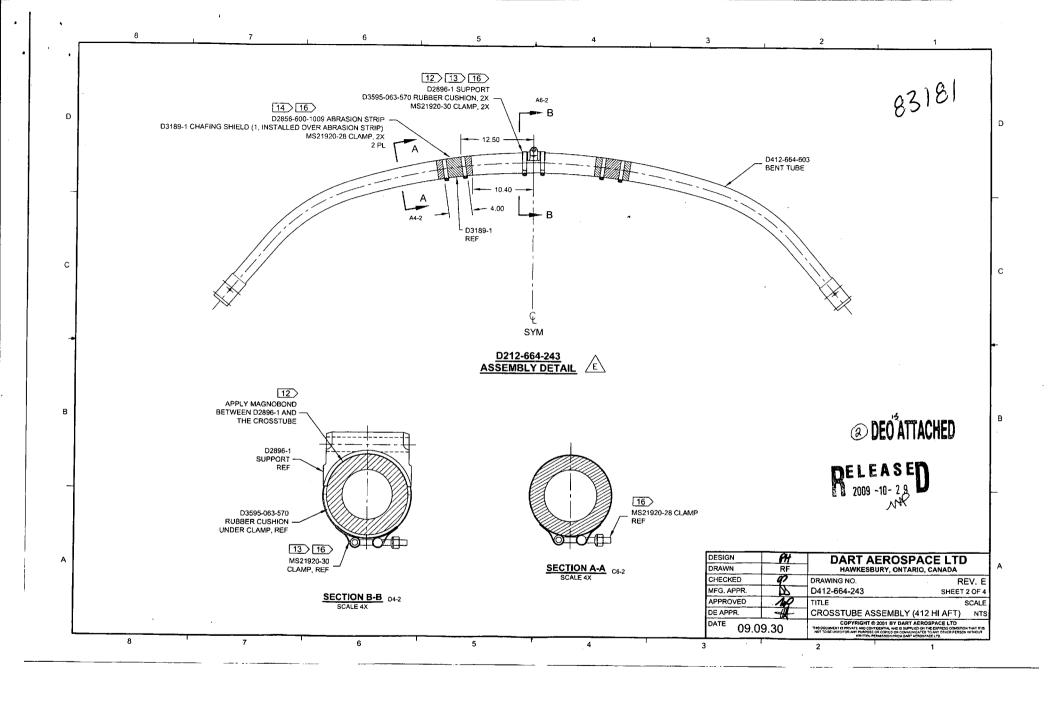
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D412-664-243" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 47.0 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE THE D2896-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.
- 14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 15) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

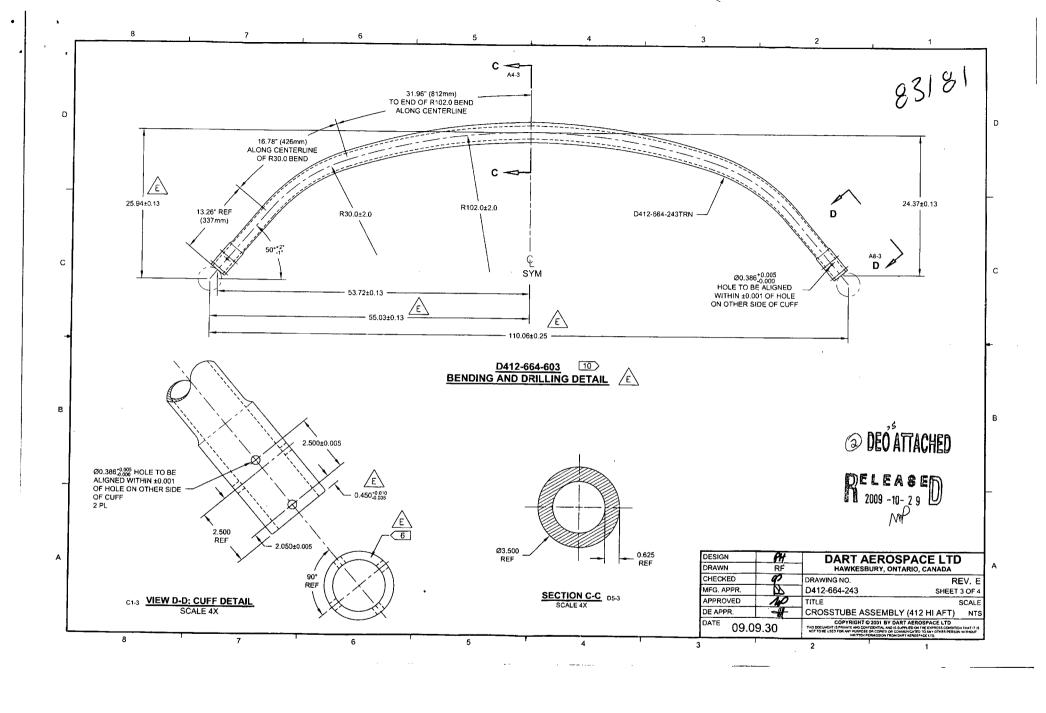
SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER NO. 83/8/ MLJ 12/04/13

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Е	REORG TO CUI PAR 08 C8-3 &	ANIZED VIEW RRENT STANC -046 (ZN A6-3)	SENERAL NOTES; S AND REFORMATTED DRAWING NARDS; RELOCATED FLAG #6 PER : ADD TOLERANCE (ZN B6-3, C4-3, TURNING DETAIL & UPDATED ET 4.	RF	09.09.30
D	REMO	VE D2732-058	, CHANGE TO D3595-063-570	PH	07.03.09
С			-1087, ADD D2732-058 & MS21920-32 WAS MS21920-30	МВ	06.10.27
В	ADD H		OMPATABILITY WITH BHT/AA	PH	05.02.04
Α	NEW IS	SSUE		PH	01.10.17
REV.			DESCRIPTION	BY	DATE
DESIGN		PH	DART AEROSP	ACE	LTD
DRAWN		RF	HAWKESBURY, ONTAF	IO, CANA	DA .
CHECK	ED	P	DRAWING NO.		REV. E
MFG. AF	PR.	77	D412-664-243	s	HEET 1 OF 4
APPRO\	/ED	10	TITLE		SCALE
DE APPI	₹.	-#	CROSSTUBE ASSEMBLY (412 HI A	(FT) NTS
DATE	09.0	9.30	COPYRIGHT © 2001 BY DART / THIS COCCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIE NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATION	OON THE EXPRES	IS CONDITION THAT IT IS

W/O:			V	VORK ORDER CHANGE	S			•
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DATE	STEP	Description of NC		Corrective Action Section		Verification		Approval
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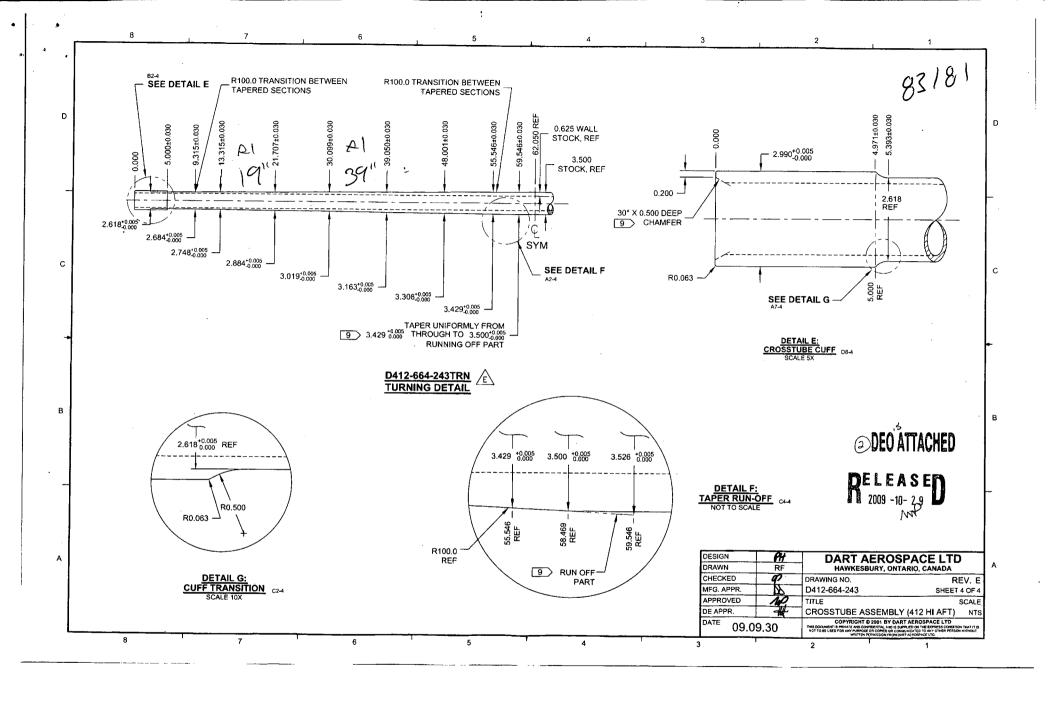
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DRAWING NO.	TITLE REV. E	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO. SCALE
D412-664-243	CROSSTUBE ASSEMBLY (412 HI AFT)	ENGINEERING ORDER	D412-664-243-E-1	SHEET 1 OF 2 NTS
DRAWN	CHECKED AND	MFG. APPR.	APPROVED MAP	DE APPR.
DATE 11.03	1.31 DATE 11/03.31	DATE // 03.31	DATE 11/03:31	DATE 11-03.31

PURPOSE:

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

IS:

Item	Qty -243	Part Number	Description
6	0	D2856-600-1009	ABRASION STRIP

WAS:

			T
6	2	D2856-600-1009	ABRASION STRIP

NOTES 2 AND 14, SHEET 1 ARE AMENDED AS FOLLOWS:

<u> 18:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA)
PAINT OUTSIDE PER DART QSI 005 4.2
AFTER PAINTING, APPLY CLEAR COAT ON HATCHED AREA

14) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3189-1 CHAFING SHIELD AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3189-1 CHAFING SHIELD ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.

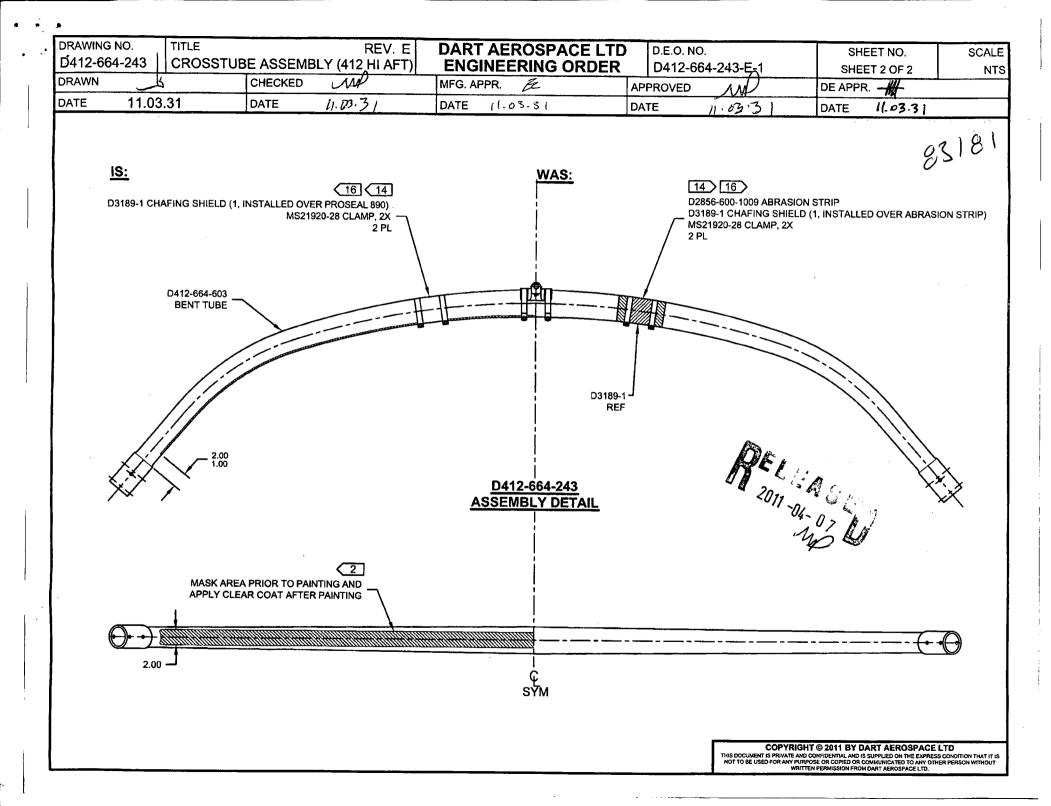


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W/O:			W	ORK ORDER CHANG	GES				b.
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	ې ۱۵%	Section C	Chief Eng	QC Inspector
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DRAWING N		REV. E	DART AEROSPACE LT	D.E.O. NO.	SHEET NO.	SCALE
D412-664	-243 CROSS	TUBE ASS'Y (412 HI AFT)	ENGINEERING ORDER	R D412-664-243-E-2	SHEET 1 OF 1	NTS
DRAWN	P	CHECKED ASS	MFG. APPR.	APPROVED MY	DE APPR.	
DATE	11.09.07	DATE 11.09.19	DATE ((.09.19	DATE 11.09.19	DATE 11. 99.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

23181

CHANGE:

IS:

Item	Qty -243	Part Number	Description
9	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 16, SHEET 1 IS AMENDED AS FOLLOWS:

- 12) INSTALL D2896-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



Dart	Aeros	pace	Ltd
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W/O:		WORK ORDER CHANGES							
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Part No:	PAR #:	Fault Category:	_ NCR: Yes No DQA:	
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:	-	WORK ORDER NON-CONFORMANCE (NCR)						Ì
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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	ULTRA SONIC MEASURMENTS									
Side	LOCATION on tube 300	R1 , 3 08	R2 , 492	R3	R4					
.,		-275	.450							
Α		,304	,462							
		. 343	.469							

	1,2	1,797	.462	
В		.299	.464	
		.3/2	,471	
		. 369	1483	
			Part number	(83/8)
•	t x		Batch number	412-664-203
ø	<i>}</i> >		Measured By	mmil